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FROM-MERCHANT & GOULD P.C.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Aslan et al. Examiner: Lydia M. DeJesus
Application No.: 10/051,332 Group Art Unit: 2859
Filed: January 1, 2002 Docket No.: 50019.81USU1/PO5006
Title: TIME-INTERLEAVED SAMPLING OF VOLTAGES FOR IMPROVING ACCURACY OF TEMPERATURE REMOTE SENSORS

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office, TC 2800, facsimile No. 703-872-9318 on May 1, 2003.

By: 
Name: Shannon Livingston

AMENDMENT

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Examiner Lydia M. DeJesus
Technology Center 2800
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

MAY 01 2003

TECHNOLOGY CENTER 2800

Dear Sir:

In response to the Office Action mailed February 5, 2003, please amend the above-identified patent application and reconsider the application in view of the remarks that follow.

In the claims:

Please amend claims 1-4, 17 and 19-22 as follows:

1. (Amended) A system for determining temperature from a remote sensor circuit circuit that includes a PN junction, comprising:

a programmable current source that is coupled to the remote sensor circuit such that the programmable current circuit provides a bias current to the PN junction when activated, wherein the bias current has an associated level that is selected from at least a first current level and a second current level;

a controller configured to selectively apply: